

CLAIMS

1. An information recording apparatus which records a partial information stream created based on an information stream acquired from the outside in a recording medium, comprising:

a first creating device which creates partial attribute information based on attribute information included in the information stream;

a first recording device which creates the partial information stream repeatedly including the created partial attribute information so as to record it in the recording medium;

a second creating device which creates attachment attribute information for compensating the partial attribute information based on the attribute information; and

a second recording device which records the created attachment attribute information in the recording medium separately from the partial information stream.

2. The information recording apparatus according to claim 1, wherein the partial attribute information is standardized so as to be included in the partial information stream and be output essentially.

3. The information recording apparatus according to claim 1 or 2, wherein the first recording device replaces a part of the partial information stream with the partial attribute information so as to create the partial information stream.

4. The information recording apparatus according to any one of claims 1 to 3, wherein the information stream is acquired by receiving digital broadcasting according to ARIB (Association

of Radio Industries and Businesses) standards.

5. A recording medium comprising:

a first recording area where the partial information stream repeatedly including partial attribute information representing at least attribute information of the partial information stream is recorded; and

a second recording area where attachment attribute information for compensating the partial attribute information is recorded.

6. A recording medium reproducing apparatus which reproduces the recording medium according to claim 5, comprising:

a first detecting device which detects the partial information stream recorded in the first recording area;

an extracting device which extracts the partial attribute information from the detected partial information stream;

a second detecting device which detects the attached attribute information recorded in the second recording area;

a first creating device which compensates the extracted partial attribute information based on the attachment attribute information so as to create stream attribute information;

a second creating device which creates partial information stream repeatedly including the created stream attribute information; and

an output device which outputs the created partial information stream.

7. The recording medium reproducing apparatus according to claim 6, wherein the second creating device replaces the

partial attribute information included in the partial information stream with the created stream attribute information so as to create the partial stream information.

8. An information recording method of recording partial information stream created based on an information stream acquired from the outside in a recording medium, comprising:

- the first creating process for creating partial attribute information based on attribute information included in the information stream;

- the first recording process for creating the partial information stream repeatedly including the created partial attribute information so as to record it in the recording medium;

- the second creating process for creating attachment attribute information for compensating the partial attribute information based on the attribute information; and

- the second recording process for recording the created attachment attribute information in the recording medium separately from the partial information stream.

9. A recording medium reproducing method of reproducing the recording medium according to claim 5, comprising:

- the first detecting process for detecting the partial information stream recorded in the first recording area;

- the extracting process for extracting the partial attribute information from the detected partial information stream;

- the second detecting process for detecting the attachment

attribute information recorded in the second recording area;

the first creating process for compensating the extracted partial attribute information based on the attachment attribute information so as to create stream attribute information;

the second creating process for creating a partial information stream repeatedly including the created stream attribute information; and

the output process for outputting the created partial information stream.

10. An information recording program which allows an information recording computer included in an information recording apparatus for recording a partial information stream created based on an information stream acquired from the outside in a recording medium to function as:

a first creating device which creates partial attribute information based on attribute information included in the information stream;

a first recording device which creates the partial information stream repeatedly including the created partial attribute information so as to record it in the recording medium;

a second creating device which creates attachment attribute information for compensating the partial attribute information based on the attribute information; and

a second recording device which records the created attachment attribute information in the recording medium separately from the partial information stream.

11. A recording medium reproducing program which allows

a recording medium reproducing computer included in the recording medium reproducing apparatus according to claim 6 for reproducing the recording medium according to claim 5 to function as:

- a first detecting device which detects the partial information stream recorded in the first recording area;

- an extracting device which extracts the partial attribute information from the detected partial information stream;

- a second detecting device which detects the attachment attribute information recorded in the second recording area;

- a first creating device which compensates the extracted partial attribute information based on the attachment attribute information so as to create stream attribute information;

- a second creating device which creates a partial information stream repeatedly including the created stream attribute information; and

- an output device which outputs the created partial information stream.

12. An information recording medium in which the information recording program according to claim 10 is recorded so as to be readable by the information recording computer.

13. An information recording medium in which the recording medium reproducing program according to claim 11 is recorded so as to be readable by the output computer.